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Applicati n Number	09/655,596
Filing Date	September 6, 2000
First Named Inventor	Beausoleil, W.F. et al.
Gr up Art Unit	2123
Examiner Name	Not Yet Assigned
Attorney Docket Number	706316-1203

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:								
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☐ Applicant/Inventors.								
Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTOISBI96)								
SIGNATURE of Applicant or Assignee of Record								
Name Peter Chen/Vice President Of Intellectual Property, Assoc. General Counsel								
Signature	Signature Volume							
Date Oct. 16, 2002								
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.								
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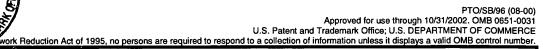
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Assignee of record of the entire interest. S Statement under 37 CFR 3.73(b) is enclosed as the statement of the entire interest.		6)	
SIGNATURE of	Applicant or Assignee	of Record	
Name Botes Char For Alice Breek	lant Of Intallactual Brazil	arti Assas Camara	I Councel
Name Peter Chen, Esq./Vice President Of Intellectual Property, Assoc. General Counsel			
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Date	Oct. 16 200		
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Quickturn Design Systems, Inc.			
Application No./Patent Nos.: 09/655,596 Filed/Issue Dates: September 6, 2000			
Entitled: <u>High Speed Software Driven Emulator Comprise</u> <u>To Allow Memory Read/Writes Without Interrupting the Er</u>			
QUICKTURN DESIGN SYSTEMS, INC. a Corporation (Type of Assignee)	on ssignee, e.g., corporation, partnership, univer my giver men agenty, etc.		
states that it is: 1. ☑ the assignee of the entire right, title, and interest; of an assignee of less than the entire right, title and in	oct 2 4 2002		
The extent (by, percentage) of its ownership interest in the patent application/patent identified above by virtue of	st is% Technology Center 210		
	ent application/patent identified above. The assignment Trademark Office at Reel, Frame or for which a		
B. [X] A chain of title from the inventor(s), of the pate assignee as shown below:	ent application/patent identified above, to the current		
 From: William F. Beausoleil, Brian Cook Lawrence A. Thomas and Norton J. Tor 	<u>қ, Tak-Kwong Ng; Helmut Roth; Peter Tannenbaum,</u> <u>massetti</u>		
To: <u>International Business Machines C</u> The document was recorded in the Unit <u>011145</u> , Frame <u>0432</u> or for which a c	ted States Patent and Trademark Office at Reel		
	Corporation To Cadence Design Systems, Inc. A copy of tis being recorded herewith. A copy of this document is		
	o: Quickturn Design Systems, Inc. A copy of a document corded herewith . A copy of this document is attached as		
[] Additional documents in the chain of title [X] Copies of assignments or other documents in the chain [NOTE: A separate copy (i.e., the original assignment of must be submitted to Assignment Division in accordant recorded in the records of the USPTO. See MPEP 302	ain of title are attached. document or a true copy of the original document) ace with 37 CFR Part 3, if the assignment is to be		
The undersigned (whose title is supplied below) is authorize	zed to act on behalf of the assignee.		
Oct. 16, 2002	Peter Chen, Esq.		
Date	Typed or printed name		
	100		
	Signature		
<u>Vice Pres</u>	sident Of Intellectual Property, Assoc. General Counsel Title		

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NOTICE OF PATENT ASSIGNMENT

This NOTICE OF PATENT ASSIGNMENT (the "Notice") is executed as of the date below, by INTERNATIONAL BUSINESS MACHINES CORPORATION, a New York corporation ("IBM").

WHEREAS, IBM has entered into a "Patent Assignment Agreement" (the "Agreement") with CADENCE DESIGN SYSTEMS, INC., a Delaware corporation ("CADENCE"), dated February 27, 2002 ("Effective Date"), pursuant to which IBM has agreed to, among other things, assign to CADENCE certain United States patents.

WHEREAS, IBM and CADENCE wish to evidence the assignment of such patent rights made in the Agreement with this document.

NOW, THEREFORE, for good and valuable consideration, IBM agrees as follows:

ARTICLE I IBM PATENTS

"IBM Patents" shall mean the patent applications listed in Attachment A.

ARTICLE II ASSIGNMENTS

Effective on the Effective Date, and subject to the terms and conditions of the Agreement, including certain reserved rights, IBM has assigned, transferred and conveyed to CADENCE all of IBM's right, title and interest in the IBM Patents.

IN WITNESS WHEREOF, IBM has caused this Notice to be executed.

INTERNATIONAL BUSINESS MACHINES CORPORATION

Gerald Rosenthal

Vice President, Intellectual Property and Licensing

Date: March 8, 2002

ATTACHMENT A TO IBM PATENT ASSIGNMENT ACKNOWLEDGEMENT

09/655,596 09/656,541 09/193,733 09/523,053 09/656,146 09/373,125 09/655,595 09/656,147 09/796,055 09/522,354

ASSIGNMENT OF PATENT APPLICATIONS

Whereas, CADENCE DESIGN SYSTEMS, INC., a corporation organized and existing under and by virtue of the laws of the Delaware and having its place of business at 2655 Seely Avenue, San Jose, California 94134 ("CADENCE"), owns of all right, title and interest in the inventions claimed and/or disclosed in following United States Patent Applications ("the Patent Applications"):

Patent Application Number	Date Patent Application Filed	Inventors	Title
09/655,596	09-06-00	Beausoleil, W.F., et al	High Speed Software Driven Emulator Comprised of a Plurality of Emulation Processors with a Method to Allow Memory Read/Writes Without Interrupting the Emulation
09/656,541	09-06-00	Beausoleil, W.F., et al	High Speed Software Driven Emulator Comprised of a Plurality of Emulation Processors with a Method to High Speed Bulk Read/Write Operation Synchronous DRAM While Refreshing the Memory
09/193,733	11-17-98	Ruedinger, J.	Algorithm to Separate Clock Domains for Emulation Purposes
09/523,053	03-10-00	Ruedinger, J., et al	Methods to Improve Concurrent Behavior Modeling with Emulation
09/656,146	09-06-00	Beausoleil, W.F., et al	High Speed Software Driven Emulator Comprised of a Plurality of Emulation Processors with

			Improved Multiplexed Data Memory
09/373,125	08-12-99	Beausoleil, W.F., et al	Clustered Processors in an Emulation Engine
09/655,595	09/06/00	Beausoleil, W.F., et al	High Speed Software Driven Emulator Comprised of a Plurality of Emulation Processors with an Improved Board-to- Board Interconnection Cable
09/656,147	09/06/00	Beausoleil, W.F., et al	High Speed Software Driven Emulator Comprised of a Plurality of Emulation Processors with an Improved Maintenance Bus that Streams Data
09/796,055	02-28-00	Beausoleil, W.F., et al	High Bandwidth 3D Memory Packaging Technique
09/522,354	03-09-00	Musselman, R., et al	Non-synchronous Hardware Emulator

Whereas QUICKTURN DESIGN SYSTEMS, INC., a corporation organized and existing under and by virtue of the laws of the Delaware and having its place of business at 2655 Seely Avenue, San Jose, California 94134 ("QUICKTURN"), is desirous of acquiring the entire right, title and interest in the inventions claimed and/or disclosed in the Patent Applications;

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, CADENCE hereby sells, assigns, transfers and sets over unto QUICKTURN, its successors and assigns, the full and exclusive right, title and interest to the inventions claimed and/or disclosed in the Patent Applications and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the inventions claimed and/or disclosed in the Patent Applications, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; the Patents to be held and enjoyed by QUICKTURN for its own use and behalf, and for QUICKTURN'S legal

representatives and assigns, to the full end of the term for which any Letters Patents are granted, as fully and entirely as the same would have been held by CADENCE had this assignment and sale not been made. CADENCE hereby authorizes and requests the United States Commissioner of Patents and Trademarks and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof to QUICKTURN, its successors and assigns, in accordance with this Assignment.

Executed this 22Nd day of 1	4 pr./, 2002, at
San Jose, CA	, 2002, at
,	Mur. a.
	R.L. Smith McKeithen Secretary, CADENCE DESIGN SYSTEMS, INC.
STATE OF CALIFORNIA)) ss	
COUNTY OF SANTA CLARA	
On 4/22/0 before me, Joyce	M. Brock, personally appeared
of satisfactory evidence to be the person(s) instrument and acknowledged to me that her	whose name(s) is/are subscribed to the within she/they executed the same in his/her/their—(she/their signature(s) on the instrument the person(s), or
WITNESS my hand and official seal	Joke M. Brock
JOYCE M. BROCK Commission # 1229814 Notary Public — California Santa Clara County My Comm. Expires Aug 20, 2003	Notary Public in and for said County and State